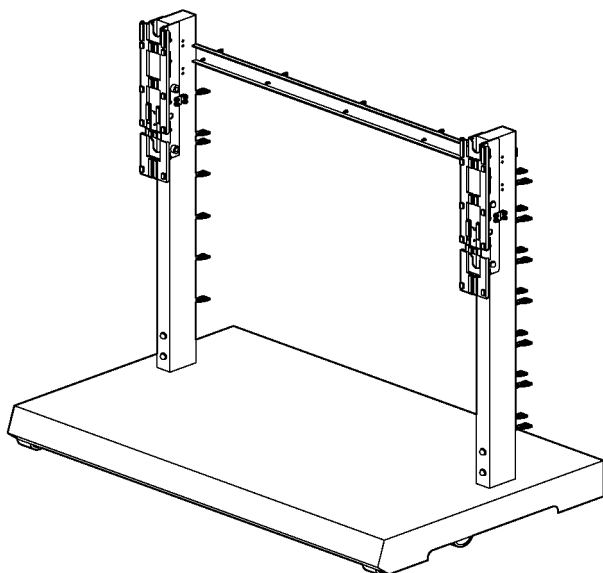


Service Manual

Floor Stand for Plasma Display

Model No. **TY-ST85PF12**

TY-ST85PF12C



WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1 Safety Precautions

WARNING

Ensure that the installation location is strong enough to support long-term use.

- If its strength becomes insufficient over the course of long-term use, the display may topple over, possibly causing injury.

Installation and removal should only be carried out by a qualified technician.

- If the floor stand is not installed correctly, the Plasma display may fall over and become damaged, and personal injury may result.

Do not disassemble or modify the floor stand

- Otherwise the unit may fall over and become damaged, and personal injury may result.

Do not install in a location that cannot support the entire load.

- If the strength of the installation surface is insufficient, the display may fall over and personal injury may result.

CAUTION

Do not use any displays other than those given in the catalogue.

- Otherwise the unit may fall over and become damaged, and personal injury may result.

Do not climb up onto the floor stand or use it as a step. (Young children should be made particularly aware of this caution.)

- If the unit falls over or becomes damaged through misuse, injury may result.

Keep the unit away from direct sunlight and heating equipment.

- Failure to do so may result in warping, deformation, or degradation of materials, and a loss of strength that may cause the equipment to fall over or break and cause injury.

Do not use the casters to moving purpose.

- These casters are used for adjustment purposes at the installation stage.
- If the casters are used to move the floor stand and plasma display, they may break, possibly causing injury.

Do not use the floor stand if it becomes warped or physically damaged.

- If you use the floor stand whilst it is physically damaged, personal injury may result.

Set up on a stable, level surface.

- If this is not done, the unit may fall over and become damaged, and personal injury may result.

Take steps to prevent toppling.

- Earthquakes or children climbing up or onto the display may cause the display to topple over, possibly resulting in injury.

When installing or removing the plasma display and floor stand, use a lowering device (machine), and ensure that the work is done by at least four persons.

- If four people are not present, the display may be dropped, and personal injury may result.

During setting-up, make sure that all screws are securely tightened

- If sufficient care is not taken to ensure screws are properly tightened during assembly, the floor stand will not be strong enough to support the Plasma Display, and it might fall over and become damaged, and personal injury may result.

Leave a space of at least 10 cm (3.9") at the top, left and right, at least 10 cm (3.9") at the bottom, and at least 15 cm (5.9") at the rear.

- The plasma display unit has air blow and air suction holes on the bottom and rear. Covering these may result in a fire.

Dispose of the product when it is no longer going to be used.

- Otherwise, it may break and fall down, possibly causing injury.

Requests regarding handling

- 1) Exercise care when selecting the location for the display because it may discolor or deform due to light or heat if it is placed where it is exposed to direct sunlight, or near a heater.
- 2) For cleaning, wipe the display using a soft dry cloth (made of cotton or flannel). If the unit is extremely soiled, first wipe off soiling with a neutral detergent diluted in water, and then wipe with a dry cloth. Do not use cleaners such as benzene, thinner or furniture wax because they may cause paint peeling. (For information on cleaning the display unit, see the display unit's instruction manual. If using a chemically treated cloth, follow the instructions supplied with the cloth.)
- 3) Do not affix adhesive tape or stickers to the product. Doing so may dirty the surface of the floor stand. Do not allow long-term contact with rubber, vinyl products or the like. (Doing so will cause deterioration.)
- 4) The panel of the plasma display is made of glass. Do not apply a strong force to it or subject it to impact.

Points to note during installation

- In order to ensure correct, problem-free operation of the Plasma Display, do not install the Display in any of the following places.
 - Near sprinklers or fire/smoke detectors.
 - Where there is a risk of exposure to vibration or impact.
 - Near high-voltage wires or dynamic power supplies.
 - Near sources of magnetism, heat, water vapor or soot.
 - Locations exposed to air blown from heating equipment.
 - Where droplets of condensation from an air conditioner or other unit may form.
- Insert the power cord plug for the Plasma Display into a wall outlet which is close and easily accessible.
- Provide adequate ventilation so that the temperature around the display does not rise above 40 °C (104 °F). If there is insufficient movement of the air inside display, heat may build up inside the display, and fire may result.
- Fit so there is no contact between the attachment bolts or power cord and any metal inside the wall.
- Spread a soft blanket or cloth over the floor so that the stand and floor will not be marked or scratched during the assembly and installation work.
- Perform the assembly and installation work on a flat and level surface, and follow the assembly and installation work instructions.
- When screwing down the parts, ensure that the screws are neither insufficiently tightened nor over tightened.
- Take sufficient care to ensure safety around you when performing the assembly and installation work or while moving about during the course of the work.
- Do not use any components other than the packaged ones.
- Be sure to read and observe the "Precautions with regard to setting up".

2 Specifications

Dimensions (W × H × D)	
main body	56 ⁷ / ₆₄ " (1425 mm) × 63 ¹³ / ₆₄ " (1605 mm) × 34 ¹⁷ / ₆₄ " (870 mm)
with packing	63 ²⁵ / ₃₂ " (1620 mm) × 14 ³ / ₁₆ " (360 mm) × 41 ⁷ / ₆₄ " (1044 mm)
Mass (weight)	
main body	180.8lb (82.0 kg)
with packing	238.1lb (108.0 kg)

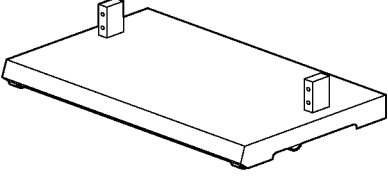
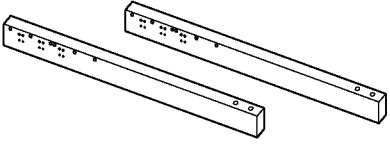
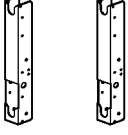
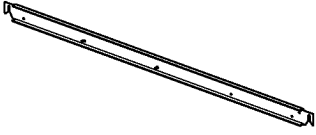
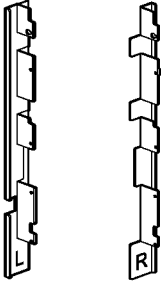
Note : Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

3 Disassembly and Assembly Instructions

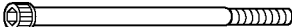
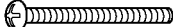
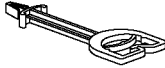
Please assemble and install the pedestal according to the following procedures.

3.1. Parts for pedestal assembly

Main parts

Ⓐ Stand base (1) 	Ⓑ Supports (2) (The left and right supports are identical.) 	Ⓒ Display mounting fixtures (2) (The left and right display mounting fixtures are identical.) 
Ⓓ Joint fixture (1) 	Ⓔ Grounding plates (2) (2 each on left and right) 	Ⓕ Grounding plates (small) (2) (The left and right grounding plates are identical.) 

Accessory parts

① Allen key (6 mm) (1) 	② Spring washers (4) 	③ Flat washers (4) 	④ Flanged cap nuts (8) 
⑤ Support mounting hexagon bolts M8×110 (4) 	⑥ Display mounting fixture hexagon bolts (with washers) M8×70 (4) 	⑦ Unit lock-in screws M6×60 (2) 	
⑧ Grounding plate screws M4×10 (28) 	⑨ Joint fixture screws M5×20 (2) 	⑩ Clamp (28) 	

Note

- Components for toppling prevention are not included with the product.

3.2. Assembly

Never use any other method than specified to install.

1. Preparation of supports (one each on left and right)

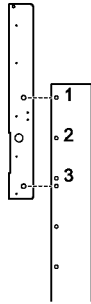
The weight of the Floor stand is approximately 82 kg (180.8 lbs.).

For the weight of the plasma display attached to the Floor stand, please see manual for the plasma display.

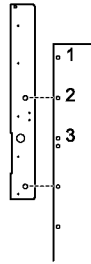
The plasma display can be set at any of three installation heights: 100 cm (39.4 inch), 90 cm (35.5 inch) or 80 cm (31.5 inch).

The installation height is the height from the floor to the bottom of the plasma display. Assemble by aligning with the appropriate stamped marks.

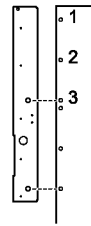
**Stamped marks1:
100 cm (39.4 inch)**



**Stamped marks2:
90 cm (35.5 inch)**



**Stamped marks3:
80 cm (31.5 inch)**

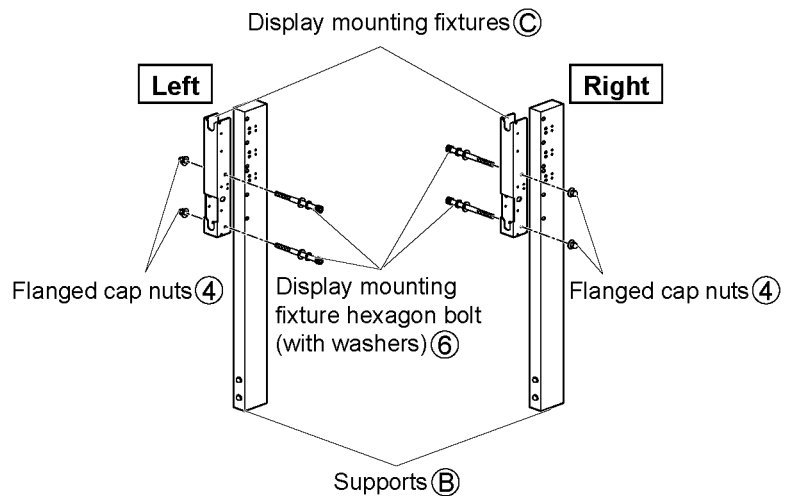


1. Join display mounting fixture ③ to support ② using 2 display mounting fixture hexagon bolts ⑥ and 2 flanged cap nuts ④.

Assemble so that the flanged cap nut ④ is on the side of support ② facing outside.

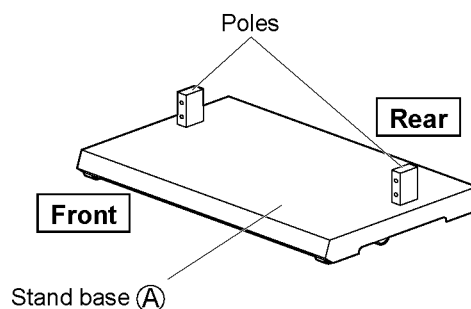
Assemble the other side the same way.

- The bolt should be securely tightened to the torque given below.
(12~14 N•m)

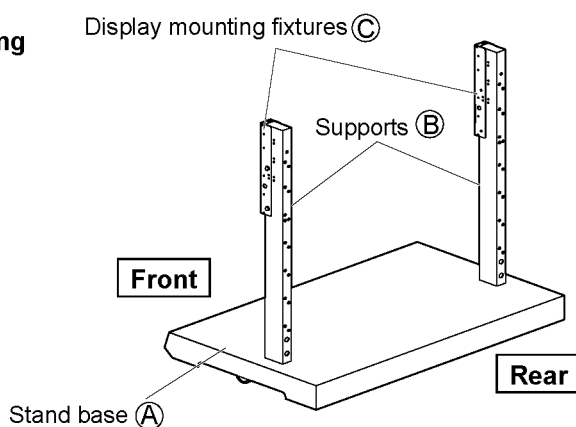


2. Mounting supports and joint fixture

1. Confirm which is the front and rear of stand base ①.
The side to which the poles are closer is the rear.

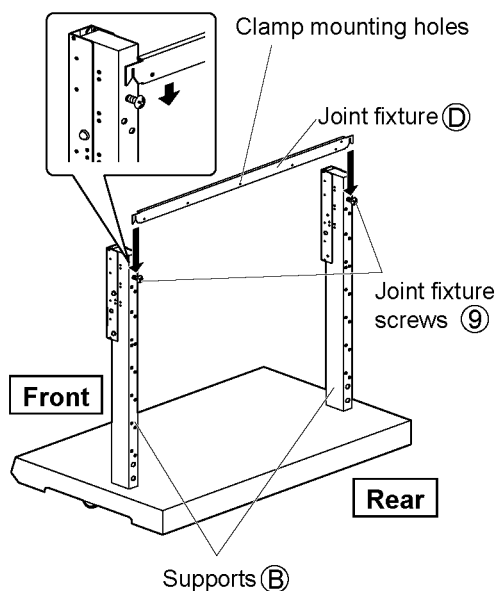


2. Slip the left and right supports ② onto the poles of stand base ① from the top so that the display mounting fixtures ③ face the front.



3. Mount joint fixture ④.
Loosely insert 1 joint fixture screw ⑨ to the rear of each support ② (left and right).
Insert the joint fixture on the screws from above, with the clamp mounting holes facing the rear.
Finish tightening the joint fixture screws ⑨ which were previously loosely inserted.

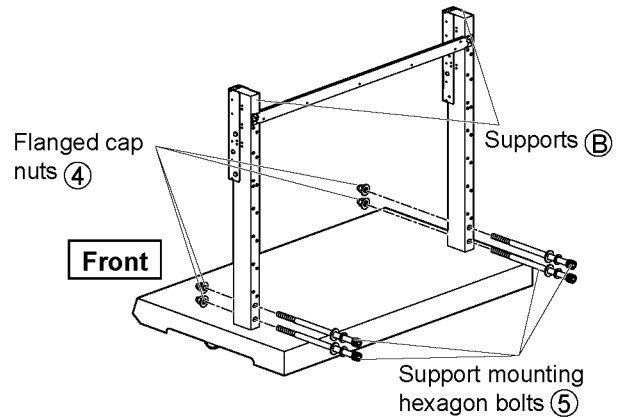
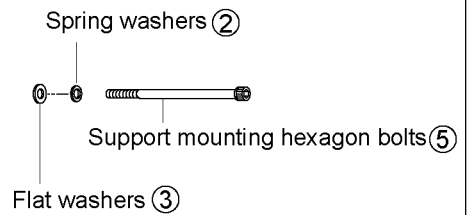
- The screws should be securely tightened to the torque given below.
(1.2~1.5 N·m)



4. Prepare the four support mounting hexagon bolts ⑤ as in the figure, and attach them to support ⑧ from the rear.
Affix them securely from the front with flanged cap nuts ④.

- The bolt and nuts should be securely tightened to the torque given below.
(12~14 N•m)

Preparation of hexagon bolts

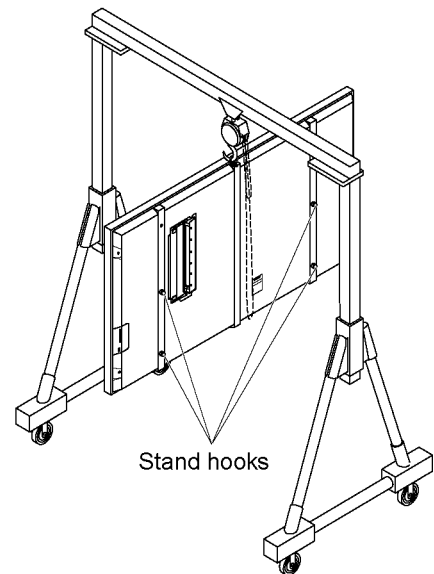


3. Preparation and installation of plasma display

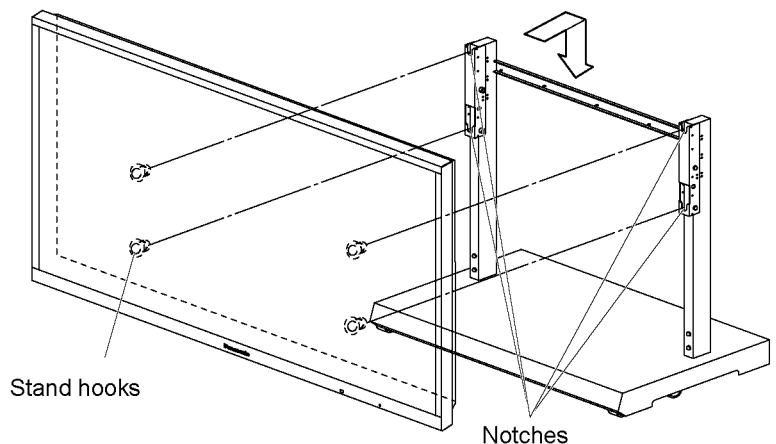
Caution

- The plasma display is heavy so use a device (machine) that will enable the plasma display to be lowered in place.
- The controls of the plasma display panel are located on the right side panel so ensure that they are not bumped into or knocked during the installation process.
- Make sure that the stand hooks are firmly secured.

1. To lift the plasma display, connect the suspension device's hook to the eye bolt in the center of the plasma display.



2. Join the stand hooks to the 4 notches on the display mounting fixture and let them drop in until they stop.



3.Starting with the upper left side of the left and right display mounting fixtures ③ , attach the 2 unit lock-in screws ⑦ .

- The screws should be securely tightened to the torque given below.
(1.2~1.5 N•m)

Note

- Do not over-tighten the unit lock-in screws ⑦ , as this could cause the fixtures to deform.

4.Remove the suspension device.

Remove the eye bolt and insert the eye bolt cap (provided with the plasma display).

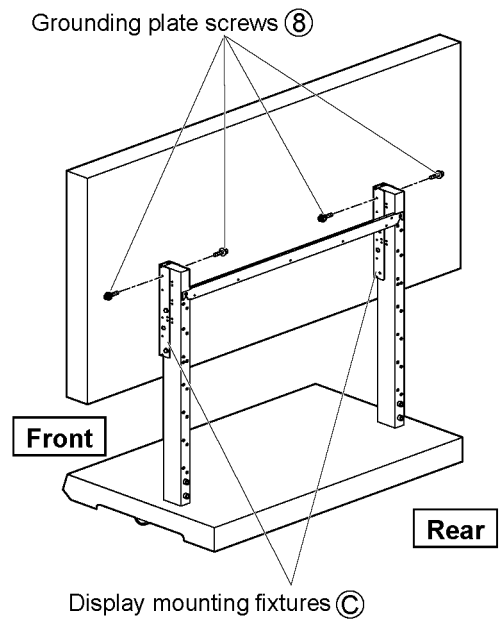
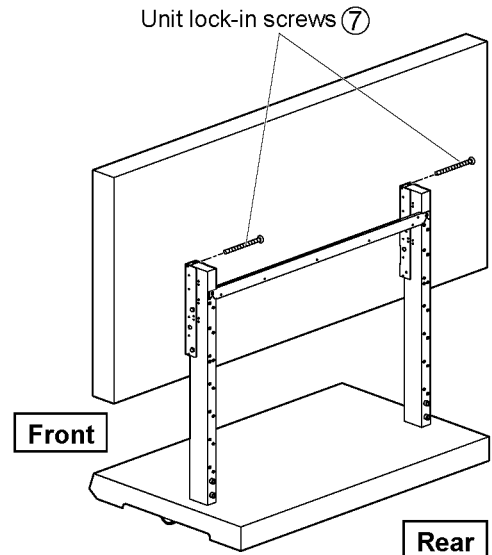
※ Carefully store the removed eye bolt.

5.Installing the grounding plate

Notes

- The stamped marks (L and R) on the grounding plates are as seen from the rear of the display.
- Attach the grounding plates the same way for both supports (left and right).

- 1) Loosely insert the grounding plate screws ⑧ (2 each on the left and on the right) to the holes on the upper end of display mounting fixtures ③ .



2)Align the hole position of grounding plate ⑤ with the grounding plate screw ⑧ mounted during Step 1, then put on grounding plate ⑤.

3)Push the grounding plate ⑤ mounted in Step 2 toward the plasma display side, and align the hole positions with the display mounting fixture ③.

※ Make contact between the gasket on the front of the grounding plate and the plasma display.

4)Insert the grounding plate screws ⑧ in the numeric order shown in the illustration. (5 is the loosely inserted screw from Step 1. Insert so that the washer does not get wedged in.)

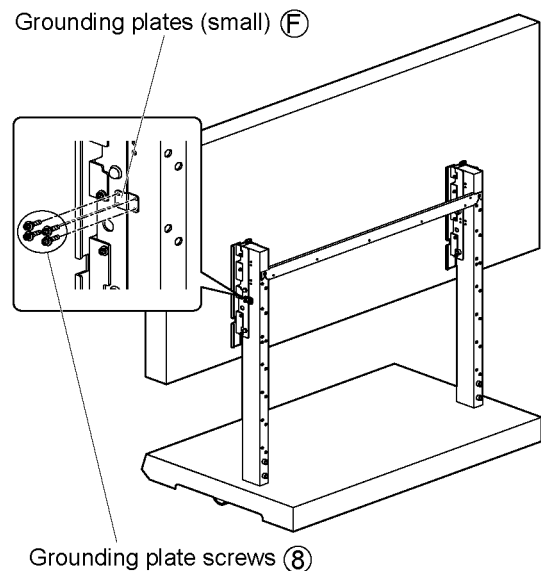
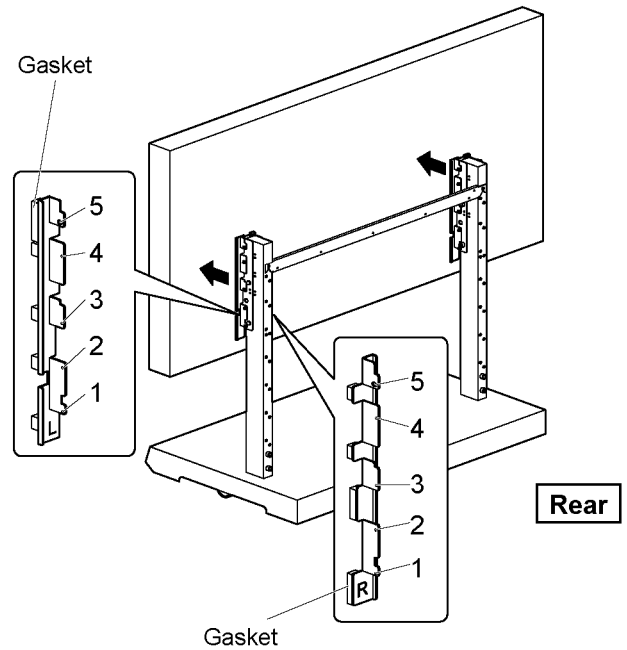
Assemble the right side the same way.

- The screws should be securely tightened to the torque given below.
(1.2~1.5 N•m)

5)Using 4 grounding plate screws ⑧, mount grounding plate (small) ⑥ to display mounting fixture ③ and supports ②.

Assemble the right side the same way.

- The screws should be securely tightened to the torque given below.
(1.2~1.5 N•m)

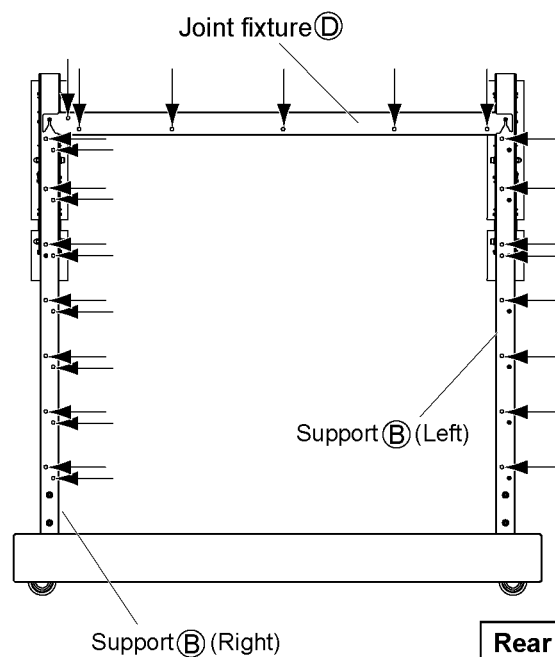


4. Wiring the equipment to be connected

For details on how to install the equipment to be connected with the display or adding more equipment, refer to the operating instructions of the plasma display and the operating instructions of the equipment concerned.

1. Insert 28 clamps ⑩ into rear of floor stand.

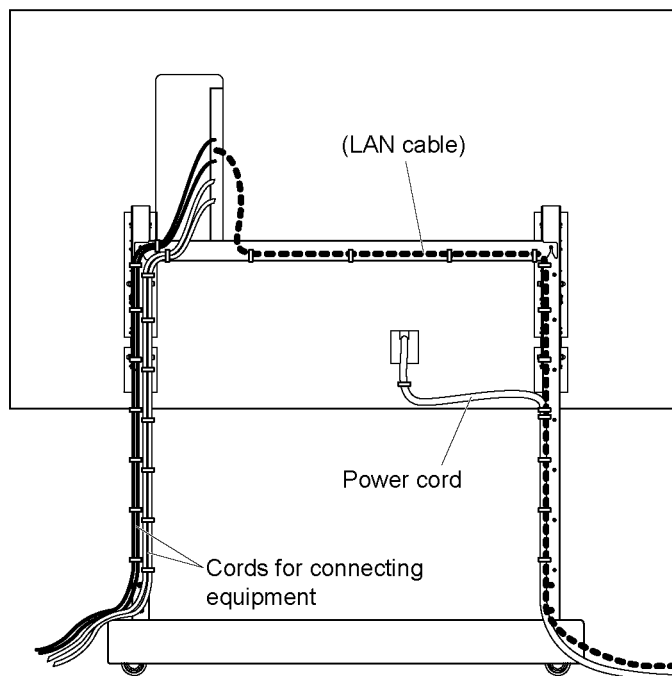
- 8 on the inner edge of support ⑧ (Left)
- 14 in support ⑧ (Right)
- 6 in joint fixture ⑨



2.If the equipment to be connected (such as an AV amplifier and DVD recorder) is to be installed at the same time for use, connect the plasma display wires first.

3.When wiring to connecting equipment, pull wiring to the rear, using the mounted clamps.

Viewed from the rear, the left side is for cords from connecting equipment, and the right side for power cord and LAN cable.
(Follow the dashed line in the figure when using LAN cable.)



Caution

- If using LAN cable to connect plasma display, connect the LAN cable so it is separate from other cables (this does not include the power cord).

5. Anchoring the floor stand

Move the floor stand to the position where the user wants it to be installed.

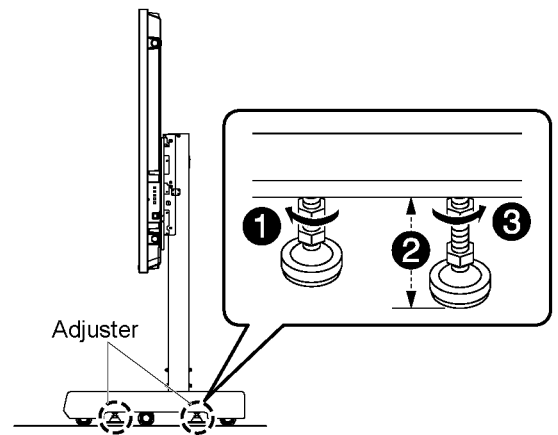
Anchoring with adjusters

Move the unit to the desired place and anchor it with the adjusters.

Check whether the plasma display is leaning. If it is, use the adjusters to set it upright.

Adjustment procedure

- 1 Loosen the adjuster anchoring nuts.
- 2 Use the adjusters to change the height so that the inclination is adjusted.
- 3 Tighten up the adjuster anchoring nuts to fix them in place.



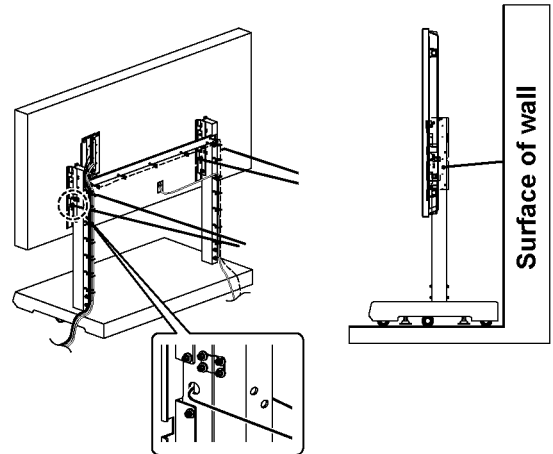
6. Toppling prevention

Anchoring to wall or post by wire

Pass commonly available metal wire (with breaking strength of at least 7.8 kN) through holes in display mounting fixture ③ and anchor to a strong wall, post, etc., leaving no slackness in the wire.

Note

- Components for toppling prevention are not included with the product.
Use a commonly available product (with breaking strength of at least 7.8 kN) that is suitable for the way your home is built.

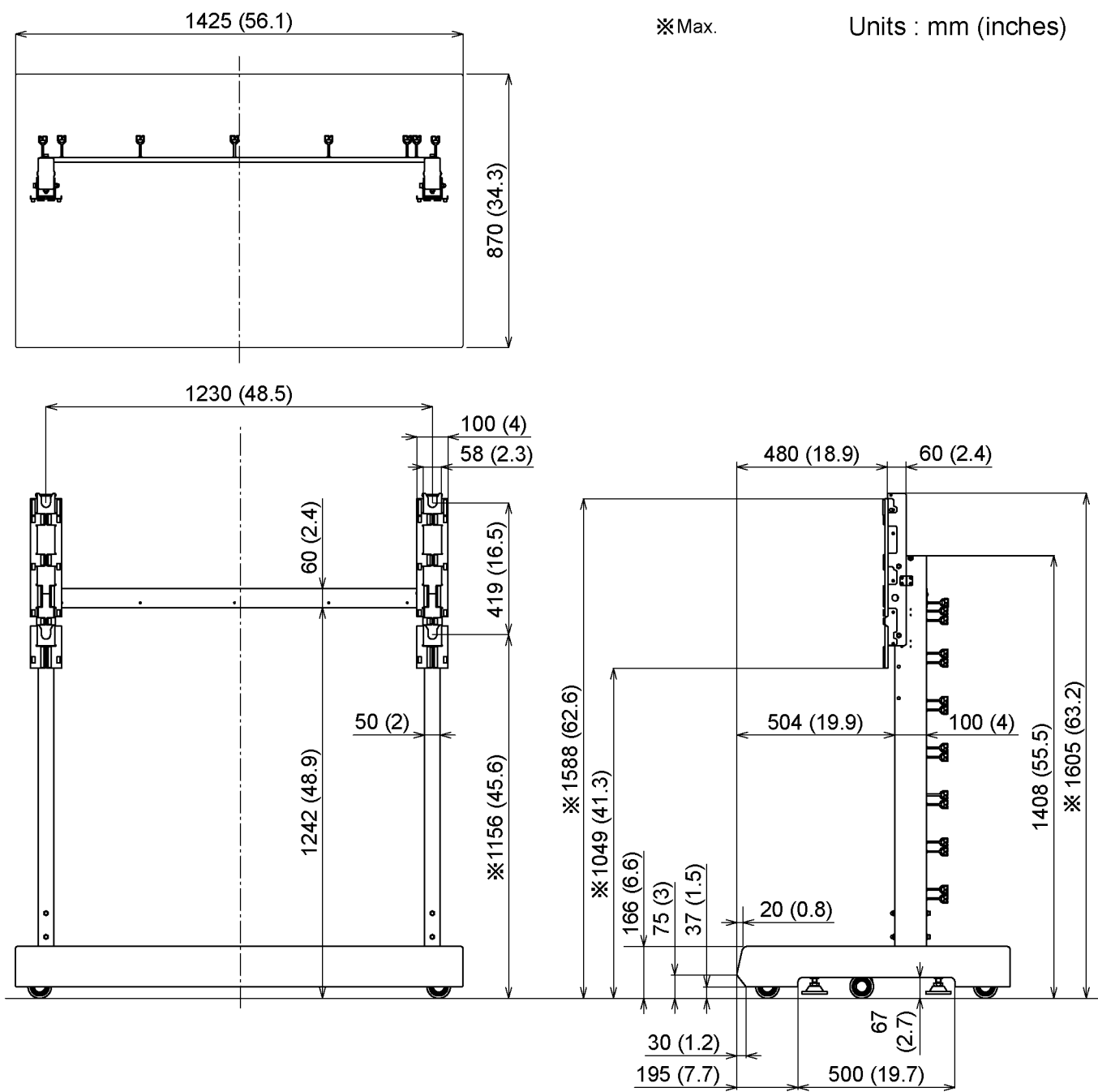


3.3. Removing the plasma display

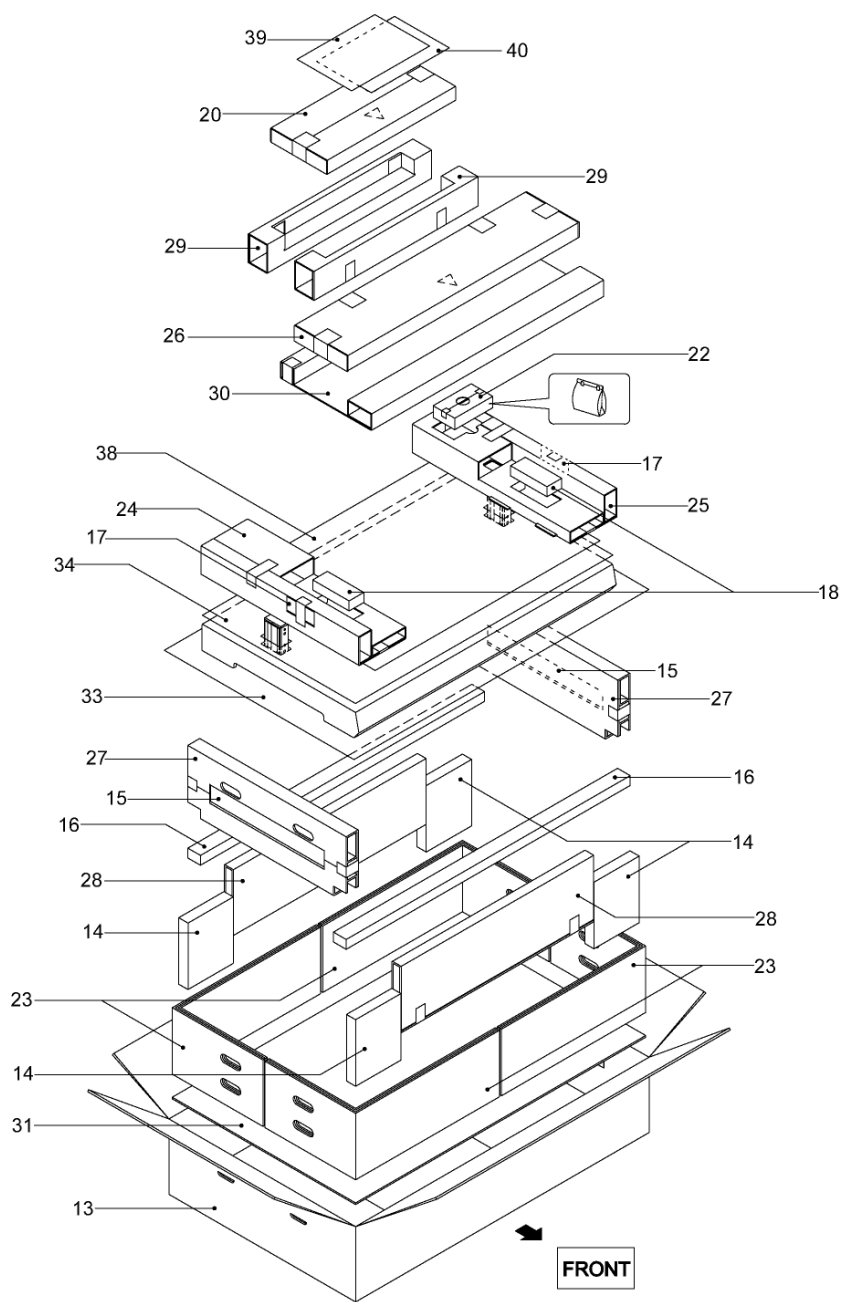
Caution

- Always ask a qualified professional to move the plasma display or remove it.
 - Because the display is heavy, handle it carefully by the use of lifting equipment (machine).
1. Remove the toppling prevention system and loosen the adjuster to release unit from its anchored status.
 2. Remove wiring to connecting devices, and then remove grounding plate.
 3. Remove the 2 unit lock-in screws starting from the upper left side of the left and right display mounting fixtures.
 4. With the plasma display held in suspension, pull it forward to remove it.

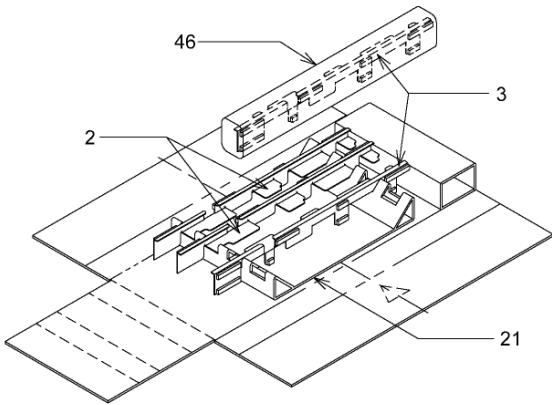
4 Dimensions



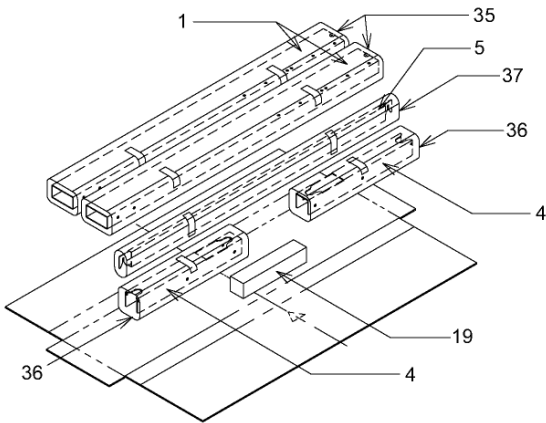
Model No. : TY-ST85PF12/TY-ST85PF12C Exploded View



Details in 20 (PROTECT BOX(EMI METAL))

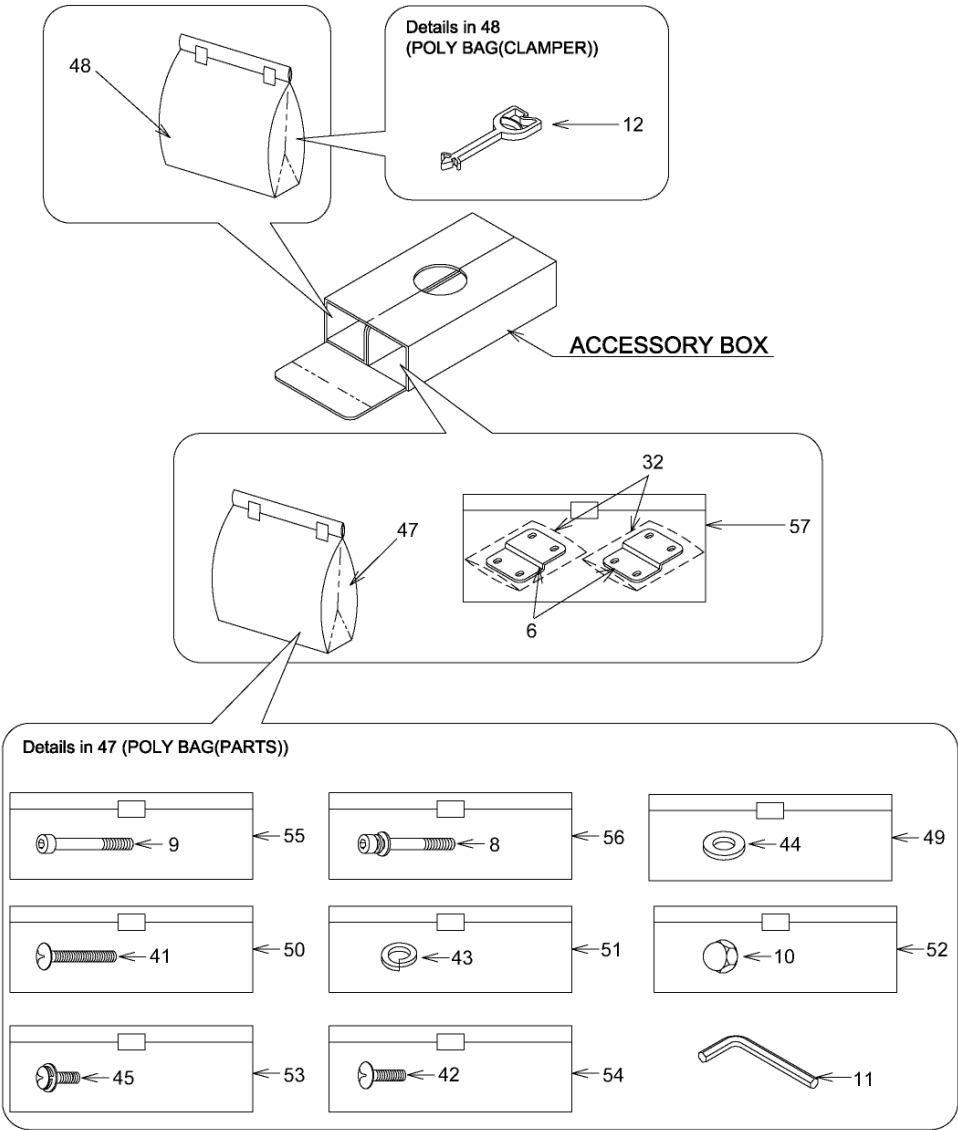


Details in 26 (PROTECTION BOX(PROP))



Model No. : TY-ST85PF12/TY-ST85PF12C Packing Summary (2)

Details in 22 (ACCESSORY BOX)



Model No. : TY-ST85PF12/TY-ST85PF12C Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	TBLA0501	PROP ASSY	2	
	2	TBLA0505	EMI METAL (L) ASSY	2	
	3	TBLA0506	EMI METAL (R) ASSY	2	
	4	TBLA3807	HOOK METAL	2	
	5	TBLA3808	PROP JOINT METAL	1	
	6	TBLA3813	EMI METAL (S)	2	
	8	THEA219J	SCREW(HOOK METAL)	4	
	9	THEA222J	SCREW(PROP)	4	
	10	THNX051J	FLANGE DOMED CAP NUT (M8)	8	
	11	TKKX0016	HEXAGON WRENCH (6mm)	1	
	12	TMM15412-2	CLAMPER	28	
	13	TPCC72201	CARTON BOX	1	TY-ST85PF12
	13	TPCC72201A	CARTON BOX	1	TY-ST85PF12C
	14	TPDA2153	CUSHION	4	
	15	TPDA2168	CUSHION (L/R)	2	
	16	TPDA2169	CUSHION (BOTTOM)	2	
	17	TPDA2170	CUSHION (PROP/SIDE/REAR)	4	
	18	TPDA2171	CUSHION (PROP BOTTOM)	2	
	19	TPDA2172	CUSHION (HOOK METAL)	1	
	20	TPDF2397	PROTECT BOX (EMI METAL)	1	
	21	TPDF2398	PROTECT PDA (EMI METAL)	1	
	22	TPDF2404	ACCESSORY BOX	1	
	23	TPDF2405	REINFORCEMENT CARD BOARD	4	
	24	TPDF2406	PROTECTION PAD (PROP L)	1	
	25	TPDF2407	PROTECTION PAD (PROP R)	1	
	26	TPDF2408	PROTECTION BOX (PROP)	1	
	27	TPDF2409	PROTECTION PAD (L/R)	2	
	28	TPDF2410	PROTECTION PAD (FRONT/REAR)	2	
	29	TPDF2411	PROTECTION PAD (EMI METAL L/R)	2	
	30	TPDF2414	PROTECTION PAD (CENTER)	1	
	31	TPDF2415	PROTECTION PAD (STAND BASE)	1	
	32	TPEB415	PROTECT SHEET (EMI METAL (S))	2	
	33	TPEB416	PROTECTION SHEET (STAND BASE BOTTOM)	1	
	34	TPEB417	PROTECTION SHEET (STAND BASE TOP)	1	
	35	TPEB418	PROTECTION SHEET (PROP)	2	
	36	TPEB419	PROTECTION SHEET (HOOK METAL)	2	
	37	TPEB420	PROTECTION SHEET (PROP JOINT METAL)	1	
	38	TPFD116086	PROTECTION PAPER (STAND BASE)	1	
	39	TQZJ174	INSTRUCTION SHEET	1	TY-ST85PF12
	39	TQZJ184	INSTRUCTION SHEET	1	TY-ST85PF12C
	40	TQZJ191	CORRECT WIRING HANDBILL	1	TY-ST85PF12
	40	TQZJ192	CORRECT WIRING HANDBILL	1	TY-ST85PF12C
	41	XSN6+60FJK	SCREW(HOOK STOPPER)	2	

Model No. : TY-ST85PF12/TY-ST85PF12C Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	42	XST5+20FJK	NUT (PROP JOINT METAL)	2	
	43	XWA8AFJK	SPRING WASHER (PROP)	4	
	44	XWG8FJK	SCREW WASHER (PROP)	4	
	45	XYN4+F10FJK	SCREW (EMI METAL L/R)	28	
	46	XZB12X60C06	POLY BAG (EMI METAL)	4	
	47	XZB17X19C03	POLY BAG (PARTS)	1	
	48	XZB17X19C03	POLY BAG (CLAMPER)	1	
	49	XZB7.5X9A05	POLY BAG (SCREW WASHER/PROP)	1	
	50	XZB7.5X9A05	POLY BAG (SCREW/HOOK STOPPER)	1	
	51	XZB7.5X9A05	POLY BAG (SPRING WASHER /PROP)	1	
	52	XZB7.5X9A05	POLY BAG (NUT /PROP JOINT METAL)	1	
	53	XZB7.5X9A05	POLY BAG (SCREW/EMI METAL L/R)	1	
	54	XZB7.5X9A05	POLY BAG (NUT (M8))	1	
	55	XZB9X16A06	POLY BAG (SCREW/PROP)	1	
	56	XZB9X16A06	POLY BAG (SCREW/HOOK METAL)	1	
	57	XZB9X16A06	POLY BAG (EMI METAL (S))	1	